

AMENDMENTS TO CLAIMS

1. (Original) A recording apparatus, comprising:

a recording control unit configured to input content data; to compress the content data; to extract a portion of the content data, which portion of the content data is to be used as an index entry, based on data type information obtained during the compression of the content data; and to record on a recording medium the compressed content data, the portion of the content data, and recording time information obtained during the compression of the content data.

2. (Original) The recording apparatus as claimed in claim 1, wherein the compressed content data, the portion of the content data, and the recording time information obtained during the compression of the content data are recorded in different areas of said recording medium.

3. (Original) The recording apparatus as claimed in claim 1 or 2, wherein the portion of the content data is appended to another said portion of the content data, which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

4. (Currently amended) The recording apparatus as claimed in claim ~~1, 2, or~~ 3, wherein the portion of the content data is recorded on a different recording medium than said recording medium.

5. (Original) The recording apparatus as claimed in claim 4, wherein the portion of the content data is recorded on a different recording medium than said recording medium during intervals between recording sessions of the compressed content data.

6. (Currently amended) A reproducing apparatus, comprising:

a reproducing unit configured to reproduce a portion of content data, which portion of the content data is recorded on a recording medium by the recording apparatus as claimed in claim ~~1, 2, 3, 4, or~~ 5; and to reproduce the content data at fast speed, backward, or backward at fast speed based on the reproduced portion of the content data.

7. (Original) A recording method, comprising the steps of:

inputting content data;

compressing the content data;

extracting a portion of the content data, which portion of the content data is to be used as an index entry, based on data type information obtained during the compression of the content data; and

recording on a recording medium the compressed content data, the portion of the content data, and recording time information obtained during the compression of the content data.

8. (Original) The recording method as claimed in claim 7, wherein the compressed content data, the portion of the content data, and the recording time information obtained during the compression of the content data are recorded in different areas of said recording medium.

9. (Original) The recording method as claimed in claim 7 or 8, wherein the portion of the content data is appended to another said portion of the content data,

which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

10. (Currently amended) The recording method as claimed in claim ~~7, 8, or~~ 9, wherein the portion of the content data is recorded on a different recording medium than said recording medium.

11. (Original) The recording method as claimed in claim 10, wherein the portion of the content data is recorded on a different recording medium than said recording medium during intervals between recording sessions of the compressed content data.

12. (Currently amended) A reproducing method, comprising the steps of:

reproducing a portion of content data, which portion of the content data is recorded on a recording medium by the recording method as claimed in claim ~~7, 8, 9,~~ 10, ~~or~~ 11; and

reproducing the content data at fast speed, backward, or backward at fast speed based on the reproduced portion of the content data.

13. (Original) A computer-readable recording medium having a program embodied therein for causing a computer to input content data; to compress the content data; to extract a portion of the content data, which portion of the content data is to be used as an index entry, based on data type information obtained during the compression of the content data; and to record on a recording medium the compressed content data, the portion of the content data, and recording time information obtained during the compression of the content data.

14. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 13, wherein the compressed content data, the portion of the content data, and the recording time information obtained during the compression of the content data are recorded in different areas of said recording medium.

15. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 13 or 14, wherein the portion of the content data is appended to another said portion of the content data, which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

16. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~13, 14, or~~ 15, wherein the portion of the content data is recorded on a different recording medium than said recording medium.

17. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 16, wherein the portion of the content data is recorded on a different recording medium than said recording medium during intervals between recording sessions of the compressed content data.

18. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~13, 14, 15, 16, or~~ 17, wherein the program further causes a computer to reproduce a portion of the content data, which portion of the content data is recorded on said recording medium; and to reproduce the content data at fast speed, backward, or backward at fast speed based on the reproduced portion of the content data.

19. (Original) A recording apparatus, comprising:

a data recording unit configured to intermittently record content data on a recording medium;

an index-information-and-portion-of-data generating unit configured to generate index information from the content data and to extract a portion of the content data, which portion of the content data corresponds to the index information, while the data recording unit is recording the content data; and

an index-information-and-portion-of-data recording unit configured to record on said recording medium, during intervals between recording sessions by the data recording unit of the content data, the index information and the portion of the content data generated/extracted by the index-information-and-portion-of-data generating unit.

20. (Original) The recording apparatus as claimed in claim 19, wherein the data recording unit is configured to temporarily store the content data to be recorded on said recording medium in a buffer; to read out the content data from the buffer; and to intermittently record the read-out content data on said recording medium.

21. (Original) The recording apparatus as claimed in claim 19 or 20, wherein

the index-information-and-portion-of-data generating unit is configured to generate index information from the content data, to extract a portion of the content data, which portion of the content data corresponds to the index information, and to store the generated index information and the extracted portion of the content data in a buffer, while the data recording unit is recording the content data; and

the index-information-and-portion-of-data recording unit is configured to read out the index information and the portion of the content data generated/extracted and stored in the buffer by the index-information-and-portion-of-data generating unit, and to record on said recording medium the read-out index information and the read-out portion of the content data, during intervals between recording sessions by the data recording unit of the content data.

22. (Currently amended) The recording apparatus as claimed in claim ~~19, 20,~~
~~or~~ 21, wherein the index information includes recording time information.

23. (Currently amended) The recording apparatus as claimed in claim ~~19, 20,~~
~~21, or~~ 22, wherein the index information includes frame number information.

24. (Currently amended) The recording apparatus as claimed in claim ~~19, 20,~~
~~21, 22, or~~ 23, wherein the index-information-and-portion-of-data generating unit generates the index information and extracts the portion of the content data while the content data is being compressed.

25. (Original) The recording apparatus as claimed in claim 24, wherein the compressed content data, the portion of the content data, and the recording time information obtained during the compression of the content data are recorded in different areas of said recording medium.

26. (Original) The recording apparatus as claimed in claim 24 or 25, wherein the portion of the content data is appended to another said portion of the content data, which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

27. (Currently amended) The recording apparatus as claimed in claim ~~24, 25,~~
~~or~~ 26, wherein the portion of the content data is recorded on a different recording
medium than said recording medium.

28. (Original) The recording apparatus as claimed in claim 27, wherein the
portion of the content data is recorded on a different recording medium than said
recording medium during intervals between recording sessions of the compressed
content data.

29. (Original) A recording method, comprising:

a data recording step of intermittently recording content data on a recording
medium;

an index-information-and-portion-of-data generating step of generating
index information from the content data and extracting a portion of the content data,
which portion of the content data corresponds to the index information, while the
content data are being recorded in the data recording step; and

an index-information-and-portion-of-data recording step of recording on said
recording medium, during intervals between recording sessions of the content data in
the data recording step, the index information and the portion of the content data
generated/extracted in the index-information-and-portion-of-data generating step.

30. (Original) The recording method as claimed in claim 29, wherein, in the
data recording step, the content data to be recorded on said recording medium are
temporarily stored in a buffer, read out from the buffer, and intermittently recorded on
said recording medium.

31. (Original) The recording method as claimed in claim 29 or 30, wherein

in the index-information-and-portion-of-data generating step, index information is generated from the content data, a portion of the content data which portion of the content data corresponds to the index information is extracted from the content data, and the generated index information and the extracted portion of the content data are stored in a buffer, while the content data are being recorded in the content data recording step; and

in the index-information-and-portion-of-data recording step, the index information and the portion of the content data generated/extracted and stored in the buffer in the index-information-and-portion-of-data generating step are read out and recorded on said recording medium during intervals between recording sessions of the content data in the data recording step.

32. (Currently amended) The recording method as claimed in claim ~~29, 30, or~~ 31, wherein the index information includes recording time information.

33. (Currently amended) The recording apparatus as claimed in claim ~~29, 30, 31, or~~ 32, wherein the index information includes frame number information.

34. (Currently amended) The recording method as claimed in claim ~~29, 30, 31, 32, or~~ 33, wherein, in the index-information-and-portion-of-data generating step, the index information and the portion of the content data are generated while the content data are being compressed.

35. (Original) The recording method as claimed in claim 34, wherein the compressed content data, the portion of the content data, and the recording time

information obtained during the compression of the content data are recorded in different areas of said recording medium.

36. (Original) The recording method as claimed in claim 34 or 35, wherein the portion of the content data is appended to another said portion of the content data, which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

37. (Currently amended) The recording method as claimed in claim ~~34, 35, or~~ 36, wherein the portion of the content data is recorded on a different recording medium than said recording medium.

38. (Original) The recording method as claimed in claim 37, wherein the portion of the content data is recorded on a different recording medium than said recording medium during intervals between recording sessions of the compressed content data.

39. (Original) A computer-readable recording medium having a program embodied therein, said program comprising:

a data recording code unit configured to intermittently record content data on a recording medium;

an index-information-and-portion-of-data generating code unit configured to generate index information from the content data and to extract a portion of the content data, which portion of the content data corresponds to the index information, while the data recording code unit is recording the content data; and

an index-information-and-portion-of-data recording code unit configured to record on said recording medium, during intervals between recording sessions by the

data recording code unit of the content data, the index information and the portion of the content data generated/extracted by the index-information-and-portion-of-data generating code unit.

40. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 39, wherein the data recording code unit is configured to temporarily store the content data to be recorded on said recording medium in a buffer; to read out the content data from the buffer; and to intermittently record the read-out content data on said recording medium.

41. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 39 or 40, wherein

the index-information-and-portion-of-data generating code unit is configured to generate index information from the content data, to extract a portion of the content data, which portion of the content data corresponds to the index information, and to store the generated index information and the extracted portion of the content data in a buffer, while the data recording code unit is recording the content data; and

the index-information-and-portion-of-data recording code unit is configured to read out the index information and the portion of the content data generated/extracted and stored in the buffer by the index-information-and-portion-of-data generating code unit, and to record on said recording medium the read-out index information and the read-out portion of the content data, during intervals between recording sessions by the data recording code unit of the content data.

42. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~39, 40, or 41~~, wherein the index information includes recording time information.

43. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~39, 40, 41, or 42~~, wherein the index information includes frame number information.

44. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~39, 40, 41, 42, or 43~~, wherein the index-information-and-portion-of-data generating code unit generates the index information and extracts the portion of the content data while the content data are being compressed.

45. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 44, wherein the compressed content data, the portion of the content data, and the recording time information obtained during the compression of the content data are recorded in different areas of said recording medium.

46. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 44 or 45, wherein the portion of the content data is appended to another said portion of the content data, which another said portion of the content data is recorded on said recording medium, as the compression of the content data progresses.

47. (Currently amended) The computer-readable recording medium having a program embodied therein as claimed in claim ~~44, 45, or 46~~, wherein the portion of the content data is recorded on a different recording medium than said recording medium.

48. (Original) The computer-readable recording medium having a program embodied therein as claimed in claim 47, wherein the portion of the content data is

recorded on a different recording medium than said recording medium during intervals between recording sessions of the compressed content data.